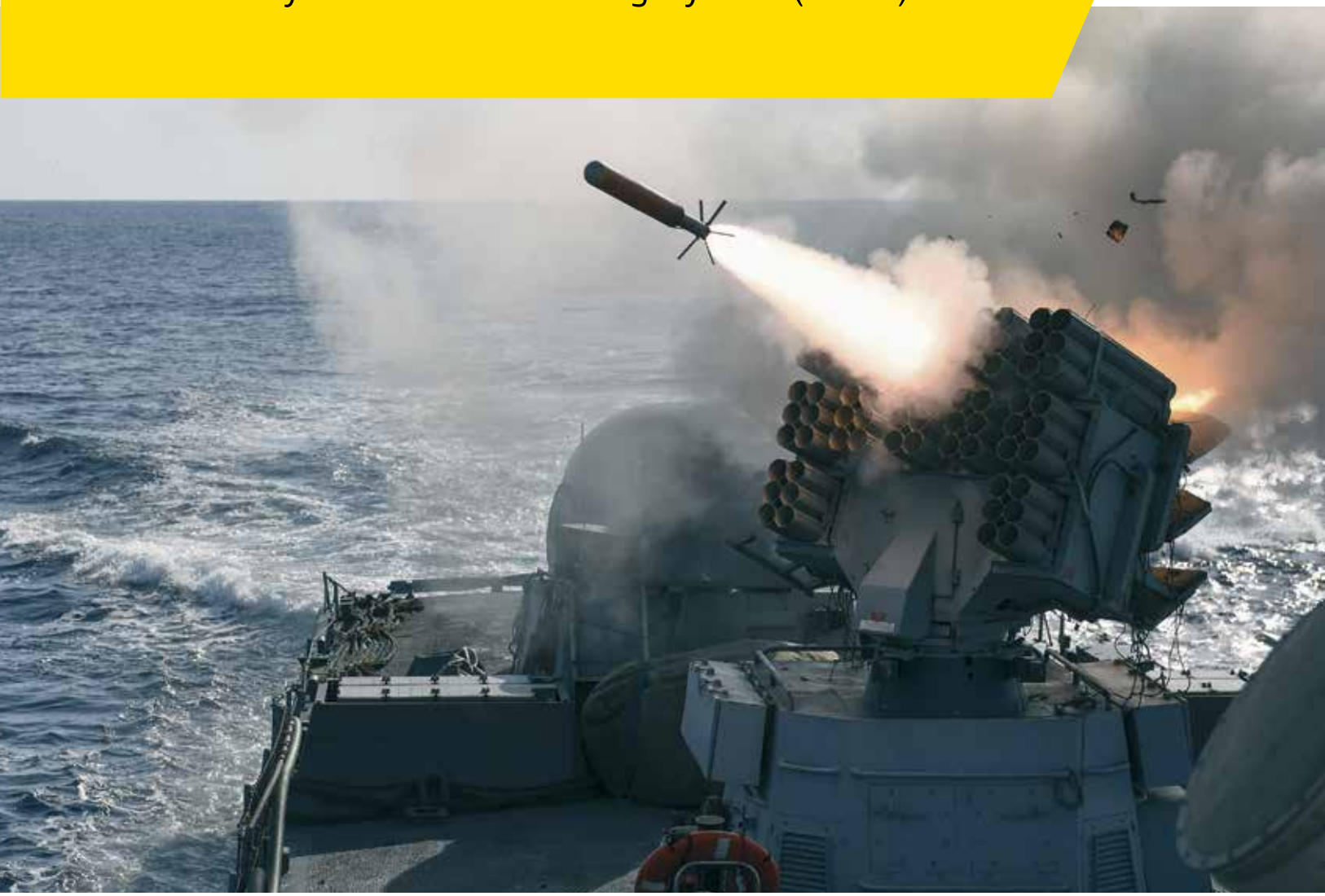
DESEAVER Mk-4

Naval Decoy Control & Launching System (DCLS)



Elbit Systems™
ISTAR & EW - Elisra

DESEAVER Mk-4

Next-Gen Soft-Kill Protection for Surface Vessels

Raising the Bar on Surface Vessel Defense

Today's seafaring vessels face a wide range of advanced threats that require rapid, sophisticated and continuously updated responses within moments of detection.

Building on decades of successful experience, the 4th Generation DESEAVER provides remarkable flexibility and 360° defense coverage, significantly increasing the high level of surface vessels' survival.
Continuously receiving threat data from various onboard sensors, the DESEAVER Mk-4 system evaluates and classifies each threat and generates a unique defense plan tailored to the specific threat and based on the customer anti-missile doctrine.
Utilizing advanced deception and confusion tactics, the DESEAVER activates an array of stabilized launchers and deploys a diverse set of decoys in very precise positioning and timing. The system automatically and simultaneously responds to multiple threats from multiple directions.
All DESEAVER Mk-4 activities are recorded for later debriefs and Course to Steer (CtS) recommendations are provided.

Launcher Configurations

DESEAVER Mk-4 offers 3 launcher types: Fixed Rocket Launcher Unit (FRLU), Rotating Rocket Launcher Unit (RRLU) and Stabilized Rocket Launcher Unit (SRLU). Each system may include any combination of these launchers, which can all be tailored to different types of rockets and decoys. The configuration is defined according to the vessel type and customer requirements.

Fixed Rocket Launcher Unit (FRLU)

The fixed launchers are installed in several positions on deck to provide maximum defense coverage for the ship. FRLU's typical capacity is 12-24 decoy rockets.

Rotating Rocket Launcher Unit (RRLU)

The rotating launchers, with a typical capacity of 24 rockets, can quickly rotate to the required launching azimuth, providing a 360°, comprehensive defense of the ship. The launcher tubes are mounted at a fixed elevation and can be installed at different elevation angles.

Stabilized Rocket Launcher Unit (SRLU)

This highly advanced fully stabilized launcher has a very high-speed maneuvering capability in both azimuth and elevation overcoming sea conditions (pitch and roll). Precise launch of decoys enables full control of the decoy positioning in azimuth, elevation and range. Through these capabilities the DESEAVER Mk-4 provides an advanced, highly effective defense solution.

Missile Defense Planner

The DESEAVER's generated anti-missile defense plan is based on the Missile Data File (Customer pre-defined Data Table) to suit each specific threat. These plans successfully handle single and multiple threat scenarios.

Versatile and Effective

The modular, lightweight, small footprint DESEAVER system can be tailored to a wide range of platforms, from patrol boats to frigates.
The DESEAVER can be integrated with existing on-board combat systems including CMS, ESM, EW, Radar and

Highlights

- Advanced classification and evaluation of threat situation
- Automatic, fast response to multiple threats from multiple directions
- Advanced defense techniques, integration of customer defense techniques
- Highly accurate launching and precision payload delivery
- Enhanced debriefing capability

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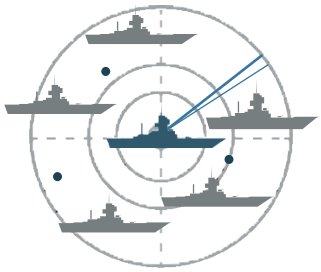
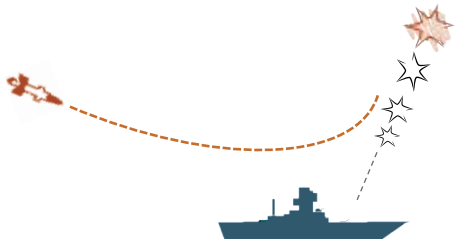
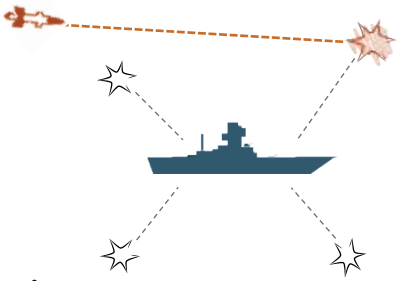
DESEAVER Defense Techniques



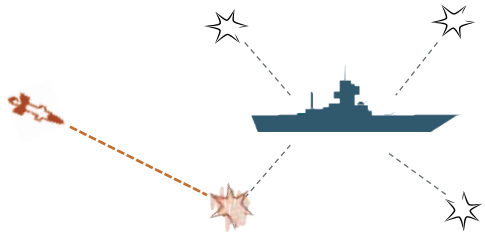
Confusion
long range tactical chaff confusion



RF Seduction of locked missile
Seduces the missile locking from own-ship



RF Distraction
Distracts radar missile in search mode



IR Distraction
Distracts IR missiles

Technical Specifications

Capability	Rotating Rocket Launcher Unit (RRLU)	Stabilized Rocket Launcher Unit (SRLU)
Weight without payload	700 Kg	800 Kg
Maximum payload weight (*)	900 Kg	900 Kg
Azimuth coverage	±170º	±170º
Elevation coverage	N/A	5º-70º
Azimuth speed	60º/sec	60º/sec
Elevation speed	N/A	40º/sec
Azimuth accuracy	±1º	±
Elevation accuracy	N/A	±

(*) The payload includes the decoys and the decoys mechanical adapters

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